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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/810,016	10/810,016 03/26/2004		Yi-Bin Hsieh	TET-PT029.1	7740	
3624	7590	10/20/2004		EXAM	EXAMINER	
VOLPE A		,	KINKEAD, ARNOLD M			
UNITED PI				·		
30 SOUTH 17TH STREET				ART UNIT	PAPER NUMBER	
PHILADELPHIA, PA 19103				2817		

DATE MAILED: 10/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
Office Action Summan	10/810,016	HSIEH, YI-BIN	
Office Action Summary	Examiner	Art Unit	
	Arnold M Kinkead	2817	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence addi	ress
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.
Status			
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		merits is
Disposition of Claims	•		
4) ⊠ Claim(s) <u>1-8</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-3 and 5-7</u> is/are rejected. 7) ⊠ Claim(s) <u>4 and 8</u> is/are objected to. 8) □ Claim(s) are subject to restriction and/or		÷ .	
Application Papers			
 9) The specification is objected to by the Examine 10) The drawing(s) filed on 26 March 2004 is/are: a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 	a)⊠ accepted or b)⊡ objected to drawing(s) be held in abeyance. Sec ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFF	` '
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for foreign a) △ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents 2. △ Certified copies of the priority documents 3. ☐ Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No. <u>10/270,893</u> . ed in this National S	tage
Attachment(s)	,.□	(070 443)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	152) / Lad

Application/Control Number: 10/810,016 Page 2

Art Unit: 2817

DETAILED ACTION

Priority

Acknowledgment is made of applicant's claim for foreign priority under 35 U.S.C. 119(a)-(d). The certified copy has been filed in parent Application No. 10/270,893, filed on 10-15-02.

Specification

2. The disclosure is objected to because of the following informalities: Please update patent information for the US application 10/270,893, now US 6,737,927

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 2, line 2, " said specified phase difference" lacks proper antecedent basis.

.Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

Art Unit: 2817

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 5. Claims 1,2,3,5,6 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Uehara et al(US patent 6,380,778).

The reference by Uehara et al discloses a duty cycle correction apparatus for converting a pair of differential analog signals(see figure 1) with analog differential oscillator(2) with differential pair of output signals, a difference of 180 degrees/50% duty cycle between the signals is present(see col. 8, lines 35-59.) The pair of analog signals is processed by (3, output converter) to provide a first and second digital pulse signals. In col. 22, lines 19-25, it is noted that these VCO circuits have the frequency set at 2X for fast logic LSI implementation. Thus a divide-by-two circuit is required when it is digitized by the converter(3) to achieve lower power consumption. Thus the first and second digital pulses will undergo the required frequency division(divide by 2) to produce a lower frequency third and fourth digital pulse signals. The duty circuit correction follows. Then logic circuit unit allowing for the output pulse signal according to the third and fourth digital pulse signals. The method steps being inherent.

Allowable Subject Matter

6. Claims 4 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The examiner could not find fair suggestion for the Exclusive-ORing of the third and fourth digital signals.

Art Unit: 2817

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arnold M Kinkead whose telephone number is 571-272-1763. The examiner can normally be reached on Mon-Fri, 8:30 am -5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on 571-272-1769. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arnold M Kinkead Primary Examiner Art Unit 2817

Arnold Kinkead Oct. 14, 2004